

Title (en)

Controlling a GPS receiver by detecting motion based on radiofrequency signal traces

Title (de)

Steuerung eines GPS-Empfängers durch Detektion von Bewegung auf Hochfrequenzsignalspur

Title (fr)

Contrôle d'un récepteur de GPS en détectant le mouvement d'après des traces de signaux en radiofréquence

Publication

EP 2275830 B1 20130424 (EN)

Application

EP 10152464 A 20100203

Priority

US 22134809 P 20090629

Abstract (en)

[origin: EP2275830A1] Operation of a GPS receiver on a wireless communications device is controlled by determining whether the device is stationary or in motion. Motion determination is accomplished by analyzing radiofrequency signal traces, e.g. GSM signal traces, received from one or more nearby base stations. A three-tiered analysis provides a progressively more accurate determination as to whether the device is moving or stationary while providing, in certain instances, a more rapid determination than prior-art techniques. When the device is determined to be stationary, the GPS receiver can be deactivated. When the device is determined to be moving, the GPS receiver can be reactivated.

IPC 8 full level

G01S 19/34 (2010.01); **G01S 5/02** (2010.01); **G01S 19/48** (2010.01)

CPC (source: EP US)

G01S 19/34 (2013.01 - EP US); **G01S 19/48** (2013.01 - EP US)

Cited by

CN106465059A; EP3872524A1; US8805402B2; WO2015171259A1; WO2013133965A1; US9301096B2; US10932087B2; WO2020036756A1; JP2015511010A

Designated contracting state (EPC)

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DOCDB simple family (publication)

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